# ONLINE SERIES

### Online Double Conversion Topology

Online Double Conversion Topology provides extra layer insulation from power problems which is achieved by continuously operating off battery power and having zero transfer time during power outages. It also stabilizes output frequency and voltage, eliminates any line noise that may be apparent in industrial settings or when operating off generator power.

*Featuring Online Double Conversion UPS topology, the Online Series UPS provides the highest level of power protection and a guaranteed quality power supply to demanding businesses who value manageability and performance. Numerous engineering excellences include an Economy Mode Setting, Hot-Standby, and Generator Mode Setting, all to further enhance its overall capability. With its zero transfer time, the Online Series ensures continuous, consistent and clean Pure Sine Wave power to all mission-critical equipment.*

**Technical Specifications**

| Model | OL1000ERTXL2U | OL1500ERTXL2U | OL2000ERTXL2U | OL3000ERTXL2U | OL1000EXL | OL1500EXL | OL2000EXL | OL3000EXL |
|---|---|---|---|---|---|---|---|---|
| **Configuration** | | | | | | | | |
| Capacity (VA / Watts) | 1000 / 900 | 1500 / 1350 | 2000 / 1800 | 3000 / 2700 | 1000 / 900 | 1500 / 1350 | 2000 / 1800 | 3000 / 2700 |
| Form Factor | Rackmount / Tower (Convertible) | | | | Tower | | | |
| Topology | Online (Double Conversion) | | | | | | | |
| Energy-Saving Technology | Yes, ECO Mode Efficiency > 93% | | | | | | | |
| **Input** | | | | | | | | |
| Input Frequency Range | 40 Hz - 70 Hz | | | | | | | |
| Input Plug Type | RJ11 / RJ45 (One In / One Out) | | | | | | | |
| **Output** | | | | | | | | |
| On Battery Output Voltage | Pure Sine Wave at 200*, 208*, 220, 230, 240 Vac (Configurable) ± 2% | | | | | | | |
| On Battery Output Frequency | 50 Hz / 60 Hz (Auto-Sensing or Configurable) ± 0.25 Hz | | | | | | | |
| Typical Transfer Time | 0ms | | | | | | | |
| Overload Protection | Line Mode: 105~125% Load for 1 min, 126~150% Load for 10 sec<br>Battery Mode: 105~130% Load for 10 sec, 131~150% Load for 2 sec | | | | | | | |
| Short Circuit Protection | UPS Output Cut off Immediately or Input Fuse / Circuit Breaker Protection | | | | | | | |
| **Surge Protection and Filtering** | | | | | | | | |
| Surge Protection | Yes | | | | | | | |
| DSL / Phone /FAX / Modem Protection | RJ11 / RJ45 (One In / One Out) | | | | | | | |
| **Physical** | | | | | | | | |
| Dimensions (H x W x D) (mm) | 88 x 433 x 430 | | 88 x 433 x 600 | | 232 x 167 x 397 | | 338 x 212 x 414 | |
| Weight (kg) - Power Module | 18 | 18 | 31 | 31 | 15 | 15.5 | 30 | 30 |
| **Battery** | | | | | | | | |
| Sealed Maintenance Free Lead Acid Battery | (3) 12V / 9AH | (3) 12V / 9AH | (6) 12V / 9AH | (6) 12V / 9AH | (3) 12V / 9AH | (3) 12V / 9AH | (6) 12V / 9AH | (6) 12V / 9AH |
| Typical Recharge Time (Hours) | 5 | | | | | | | |
| **Runtimes** | | | | | | | | |
| Half-load / Full-load (mins) | 18 / 6 | 9 / 3 | 18 / 6 | 9 / 3 | 18 / 6 | 9 / 3 | 18 / 6 | 9 / 3 |
| **Status Indicators** | | | | | | | | |
| Indicators | Power On, Line Mode, Battery Mode, Bypass Mode, Fault, Replace Battery | | | | | | | |
| Audible Alarms | Battery Mode, Battery Low, Overload, UPS Fault, Replace Battery | | | | | | | |
| Multi-function LCD Readout | Yes | | | | | | | |
| **Communication** | | | | | | | | |
| PowerPanel® Business Edition | Windows 8 / 7 / Vista / XP / 2000, Server 2012 / 2008 / 2003, Linux, VMware Esxi, and Citrix Xenserver | | | | | | | |
| **Management** | | | | | | | | |
| Self Test | Yes | | | | | | | |
| Auto-Charge / Auto-Restart | Yes | | | | | | | |
| Auto-Overload Recovery | Yes | | | | | | | |
| Cold Start (DC Start) | Yes | | | | | | | |
| Connectivity Ports | (1) Serial Port (RS232), (1) USB Port, (1) Relay Output, (1) EPO/ROO | | | | | | | |
| SNMP/HTTP Capable | Optional | | | | | | | |

*200V are derated by 20%, 208V are derated by 10%.

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**External Battery Packs**

| Model | BPE36V60ART2U | BPE72V60ART2U | BPE36V60A | BPE72V60A | BPE240V30ART3U | BPE240V50ART3U | BPE240V30A | BPE240V50A |
|---|---|---|---|---|---|---|---|---|
| Voltage | 36VDC | 72VDC | 36VDC | 72VDC | 240VDC | | | |
| Amperage | 60A | | | | 30A | 50A | 30A | 50A |
| **Physical** | | | | | | | | |
| Dimensions (H x W x D) (mm) | 88 x 433 x 430 | 88 x 433 x 600 | 232 x 167 x 397 | 338 x 212 x 414 | 132 x 433 x 660 | | 600 x 265 x 660 | |
| Weight (kg) | 23 | 44 | 22 | 43 | 76 | 78 | 135 | 139 |
| **Battery** | | | | | | | | |
| Sealed Maintenance Free Lead Acid Battery | (6) 12V / 9AH | (12) 12V / 9AH | (6) 12V / 9AH | (12) 12V / 9AH | (20) 12V / 7.2AH | (20) 12V / 9AH | (40) 12V / 7.2AH | (40) 12V / 9AH |
| Interface | PP45 | | | | | | | |
| Typical Recharge Time | 5 Hours | | | | 4 Hours | 5 Hours | 4 Hours | 5 Hours |
| Built-in Charger | Yes | | | | | | | |
| **Environment** | | | | | | | | |
| Operating Temperature | 32~104°F (0~40°C) | | | | | | | |
| Humidity | 0~90% Non-Condensing | | | | | | | |
| Compatible Model | OL1000ERTXL2U<br>OL1500ERTXL2U | OL2000ERTXL2U<br>OL3000ERTXL2U | OL1000EXL<br>OL1500EXL | OL2000EXL<br>OL3000EXL | All 6000VA Rackmount Model | All 8000/10000VA Rackmount Model | All 6000VA Tower Model | All 8000/10000VA Tower Model |

### Smart Fan Speed Control by Load Level
System would automatically adjust the fan speed by monitoring the current operation status including the load level, operating temperature and others which enable safe, stable and more energy-saving operation.

### Economy Mode Setting
The Economy Mode Setting increases the operating efficiency of UPS by up to 95% under ECO mode, while less BTU heat output and operating energy costs would be generated.

### Online Output Voltage Setting
The Online Series provides real-time adjustable output voltage level that allows more flexibility in different application scenarios. Users can select from 200V, 208V, 220V, 230V and 240V simply by few button clicks of the control panel.

### Generator Mode Setting
By adopting the generator as an input power source, the Online Series can co-exist with household power generator, while ensuring the output power quality without sacrificing any protection.

### Smart Battery Management (SBM)
Smart Battery Management (SBM) is an intelligent management procedure that can prevent the premature wear-out of the batteries. By charging the batteries in several phases with different current level, SBM can eliminate the over-charged situations in the long run. Furthermore, along with the temperature compensation technique, SBM dramatically reduces the deterioration of the battery capacity that caused by exhaust heat during the working cycle.

### Dual Input*
The Online Series equipped with dual AC input (or known as “Hot-Standby”) ensures the UPS with more availability. The feature allows the secondary source of AC input as the backup supply when the major input source is down. Together with dual UPS application, it could ensure a high-quality output power even under bypass mode.

### Detachable PDU*
For seamless and efficient maintenance or replacement, the models with detachable PDU is available to allow the engineer to configure, repair or replace the UPS unit more easily without shutting down the connected servers.

**Technical Specifications**

| Model | OL6000ERT3U<br>OL6000ERT3UD<br>OL6000ERT3UP<br>OL6000ERT3UM | OL8000ERT3U<br>OL8000ERT3UD<br>OL8000ERT3UP<br>OL8000ERT3UM | OL10000ERT3U<br>OL10000ERT3UD<br>OL10000ERT3UP<br>OL10000ERT3UM | OL6000HW<br>OL6000E | OL8000HW<br>OL8000E | OL10000HW<br>OL10000E |
|---|---|---|---|---|---|---|
| **Configuration** | | | | | | |
| Capacity (VA / Watts) | 6000 / 5400 | 8000 / 7200 | 10000 / 9000 | 6000 / 5400 | 8000 / 7200 | 10000 / 9000 |
| Form Factor | Rackmount / Tower (Convertible) | | | Tower | | |
| Topology | Online (Double Conversion) | | | | | |
| Energy-Saving Technology | Yes, ECO Mode Efficiency > 95% | | | | | |
| **Input** | | | | | | |
| Input Frequency Range | 40 Hz - 70 Hz | | | | | |
| Input Plug Type | (1) Terminal Block | | | | | |
| **Output** | | | | | | |
| Output Voltage | Pure Sine Wave at 200, 208, 220, 230, 240 Vac (Configurable) ± 2% | | | | | |
| Output Frequency | 50 Hz / 60 Hz (Auto-Sensing or Configurable) ± 0.25 Hz | | | | | |
| Typical Transfer Time | 0ms | | | | | |
| Overload Protection | Line Mode: 105~125% Load for 1 min, 126~150% Load for 10 sec<br>Battery Mode: 105~130% Load for 10 sec, 131~150% Load for 2 sec | | | | | |
| Short Circuit Protection | UPS Output Cut off Immediately or Input Fuse / Circuit Breaker Protection | | | | | |
| **Surge Protection and Filtering** | | | | | | |
| Lightning / Surge Protection | Yes | | | | | |
| DSL / Phone /FAX / Modem Protection | RJ11 / RJ45 (One In / One Out) | | | | | |
| **Physical** | | | | | | |
| Dimensions (H x W x D) (mm) Power Module | 132 x 433 x 660 (3U & 3UD model)<br>132 x 433 x 820 (3UP & 3UM model with detachable PDU installed) | | | 600 x 265 x 660 (Battery included) | | |
| Dimensions (H x W x D) (mm) Battery Module | 132 x 433 x 660 | | | | | |
| Weight (kg) - Power Module | 24 (3U & 3UD model)<br>28.5 (3UP & 3UM model with detachable PDU installed) | | | 95 (Battery included) | 97 (Battery included) | |
| Weight (kg) - Battery Module | 76 | 78 | | | | |
| **Battery** | | | | | | |
| Sealed Maintenance Free Lead Acid Battery | (20) 12V / 7.2AH | (20) 12V / 9AH | | (20) 12V / 7.2AH | (20) 12V / 9AH | |
| Typical Recharge Time (Hours) | 4 | 5 | | 4 | 5 | |
| **Runtimes** | | | | | | |
| Half-load / Full-load (mins) | 15.8 / 5.3 | 13.5 / 5.5 | 12.5 / 4.3 | 15.8 / 5.3 | 13.5 / 5.5 | 12.5 / 4.3 |
| **Status Indicators** | | | | | | |
| Indicators | Power On, Line Mode, Battery Mode, Bypass Mode, Fault, Replace Battery | | | | | |
| Audible Alarms | Battery Mode, Battery Low, Overload, UPS Fault, Replace Battery | | | | | |
| Multi-function LCD Readout | Yes | | | | | |
| **Communication** | | | | | | |
| PowerPanel® Business Edition | Windows 8 / 7 / Vista / XP / 2000, Server 2012 / 2008 / 2003, Linux, VMware Esxi, and Citrix Xenserver | | | | | |
| **Management** | | | | | | |
| Self Test | Yes | | | | | |
| Auto-Charge / Auto-Restart | Yes | | | | | |
| Auto-Overload Recovery | Yes | | | | | |
| Cold Start (DC Start) | Yes | | | | | |
| Connectivity Ports | (1) Serial Port (RS232), (1) USB Port, (1) Remote Control Port, (1) Relay Output, (1) EPO/ROO, (1) Backfeed | | | | | |
| SNMP/HTTP Capable | Optional | | | | | |

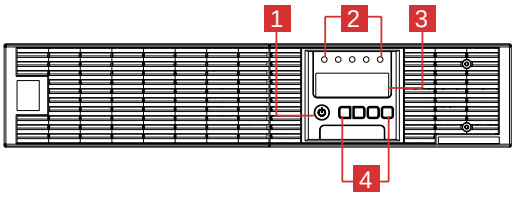
**UPS Outlet Type**

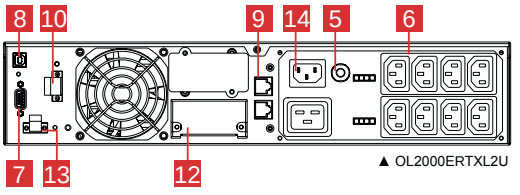
| Model | OL1000ERT2U<br>OL1500ERT2U | OL2000ERT2U<br>OL3000ERT2U | OL6000ERT3U | OL8000ERT3U<br>OL10000ERT3U | OL6000ERT3UD<br>OL8000ERT3UD<br>OL10000ERT3UD | OL6000E<br>OL8000E<br>OL10000E |
|---|---|---|---|---|---|---|
| UPS Outlets (Numbers) | (8) IEC C13 | (8) IEC C13,<br>(1) IEC C19 | (8) IEC C13,<br>(2) IEC C19,<br>(1) Terminal Block | (4) IEC C13,<br>(4) IEC C19,<br>(1) Terminal Block | (2) IEC C13,<br>(1) IEC C19,<br>(1) Terminal Block | (8) IEC C13,<br>(2) IEC C19,<br>(1) Terminal Block |
| **Model** | **OL1000EXL<br>OL1500EXL** | **OL2000EXL<br>OL3000EXL** | **OL6000ERT3UP** | **OL8000ERT3UP<br>OL10000ERT3UP** | **OL6000ERT3UM<br>OL8000ERT3UM<br>OL10000ERT3UM** | **OL6000HW<br>OL8000HW<br>OL10000HW** |
| UPS Outlets (Numbers) | (6) IEC C13 | (8) IEC C13,<br>(1) IEC C19 | (8) IEC C13, (2) IEC C19,<br>(1) Terminal Block | | (1) Terminal Block | (1) Terminal Block |

# ONLINE SERIES

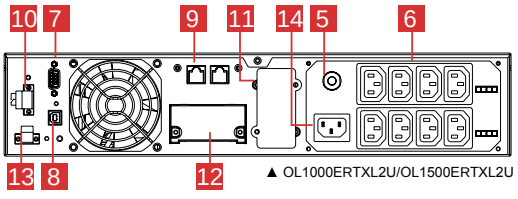
## Rackmount Model

▼OL1/1.5/2/3K Model

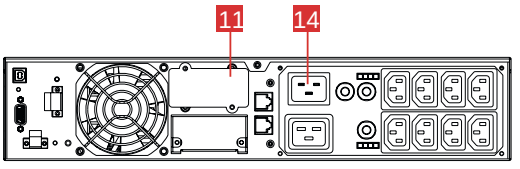



▲ OL2000ERTXL2U



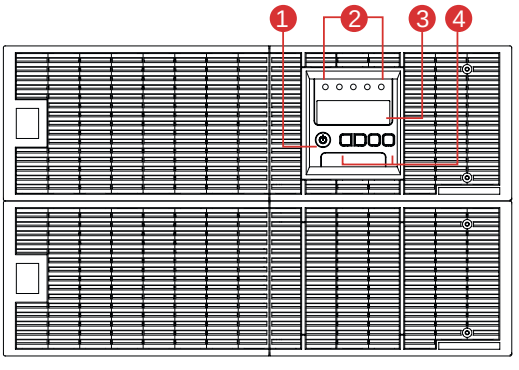

▲ OL1000ERTXL2U/OL1500ERTXL2U



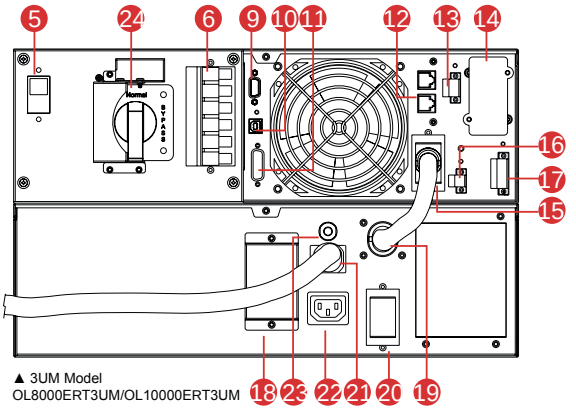

▲ OL3000ERTXL2U

## Rackmount Model

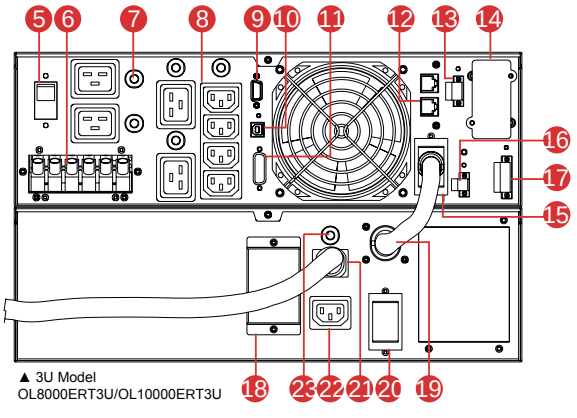
▼OL6/8/10K Model



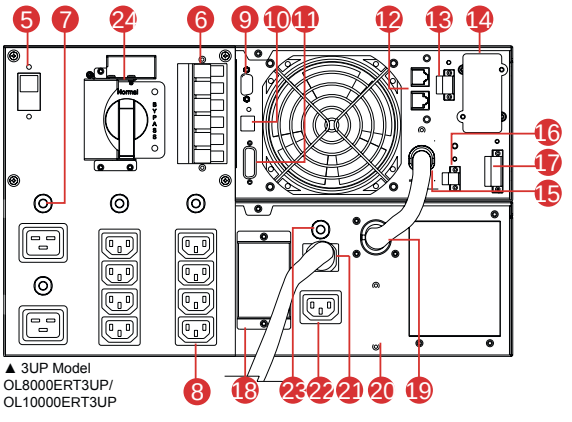

▲ External Battery Packs for RM Model: BPE240V30ART3U/BPE240V50ART3U



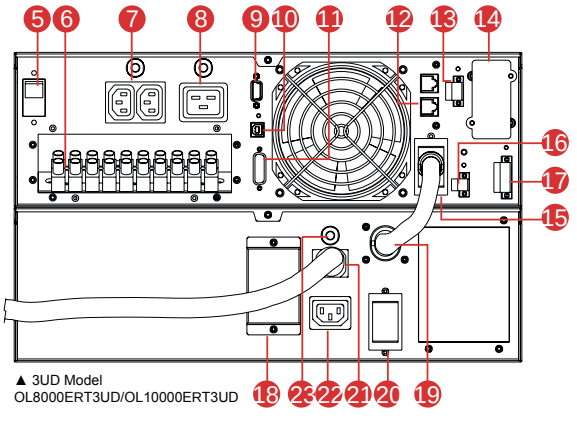

▲ 3UM Model
OL8000ERT3UM/OL10000ERT3UM



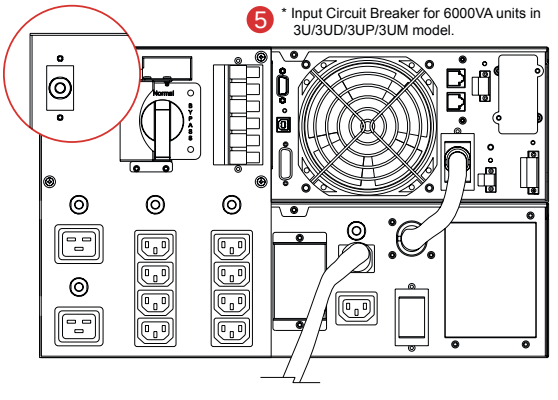

▲ 3U Model
OL8000ERT3U/OL10000ERT3U




▲ 3UP Model
OL8000ERT3UP/
OL10000ERT3UP

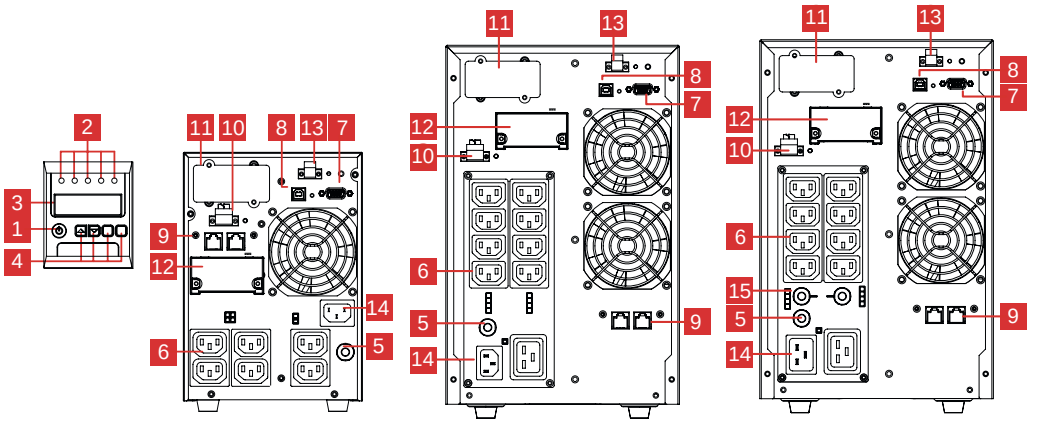



▲ 3UD Model
OL8000ERT3UD/OL10000ERT3UD



## Tower Model

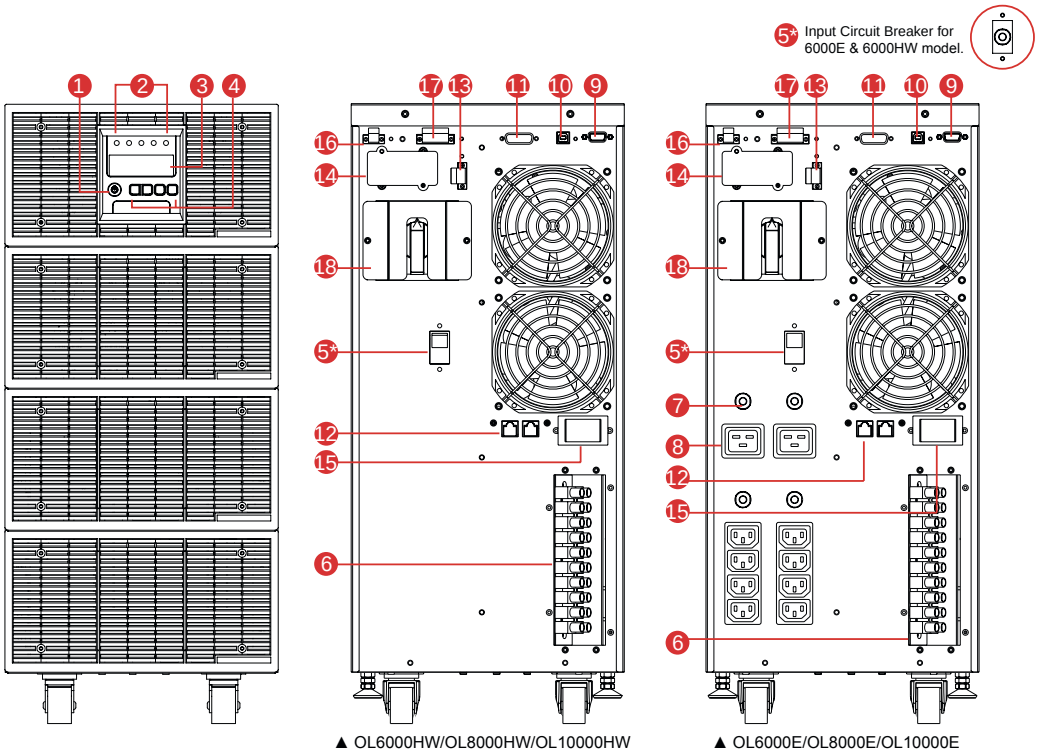
▼OL1/1.5/2/3K Model



1 Power On/Off Switch/Power
2 On Indicator
3 UPS Status/Fault/Replace Battery LED Indicator
4 Multifunction LCD Readout Function Buttons
5 Input Circuit Breaker
6 Battery Backup & Surge Protected Outlets
7 Serial Port
8 USB Port
9 Surge Protected Communication Ports- RJ11/RJ45
10 Relay Output Connector
11 SNMP/HTTP Network Slot
12 Extended Runtime Battery Pack Connector
13 EPO (Emergency Power Off) Connector
14 AC Input Inlet

## Tower Model

▼OL6/8/10K Model

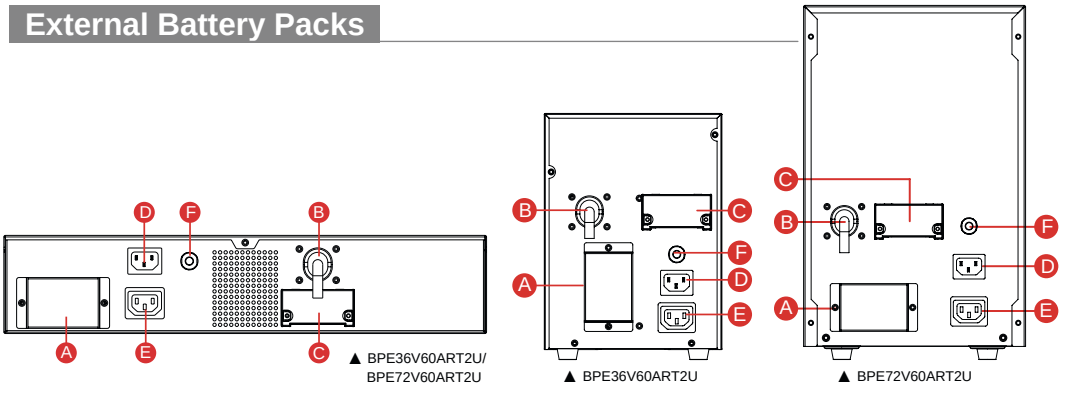



▲ OL6000HW/OL8000HW/OL10000HW

▲ OL6000E/OL8000E/OL10000E

1 Power On/Off Switch/Power On Indicator
2 UPS Status/Fault/Replace Battery LED Indicator
3 Multifunction LCD Readout
4 Function Buttons
5 Input Circuit Breaker
6 Input/Output Terminal Block
7 Output Circuit Breaker
8 Battery Backup & Surge Protected Outlets
9 Serial Port
10 USB Port
11 Remote Control Port
12 Surge Protected Communication Ports- RJ11/RJ45
13 Relay Output Connector
14 SNMP/HTTP Network Slot
15 Extended Runtime Battery Pack Connector
16 EPO (Emergency Power Off) Connector
17 Backfeed Protection Connector
18 On-board Replaceable Fuse Cover
19 Output Cable
20 Input Connector
21 AC Input Inlet (Charge Only)
22 AC Output Outlet
23 AC Circuit Breaker
24 Maintenance Bypass Switch

## External Battery Packs



▲ BPE36V60ART2U/ BPE72V60ART2U

▲ BPE36V60ART2U

▲ BPE72V60ART2U

A On-board Replaceable use Cover
B Output Cable
C Input Connector
D AC Input Inlet (Charge Only)
E AC Output Outlet
F AC Circuit Breaker